

Amendments to the Specification:

Please add the following new paragraph before the paragraph beginning at page 1, line 8, which begins with "A variety of":

Background of the Invention

Please add the following new paragraph before the paragraph beginning at page 1, line 25, which begins with "According to the present invention":

Brief Summary of the Invention

Please add the following new paragraph before the paragraph beginning at page 3, line 27, which begins with "The invention will now":

Brief Description of the Several Views of the Drawings

Please replace the paragraph beginning at page 3, line 31, with "Figure 1 shows" with the following amended paragraph:

Figure 1 shows the apparatus arranged to remove samples of water from a borehole; ~~and~~

Please replace the paragraph beginning at page 3, line 34, with "Figures 2a - 2d show" with the following amended paragraph:

Figures 2a - 2d show diagrammatically successive steps in the operation of the apparatus of figure 1, figure 2a showing the step in which the pig is being driven down to the bottom; figure 2b showing the step in which a sample of water is brought into the tube; figure 2c showing the step in which the pig and water are brought up; and figure 2d showing the step in which the sample of water is removed; and

Please add the following new paragraphs before the paragraph

beginning at page 4, line 7, which begins with "Referring to figure 1,":

Figure 3 shows a longitudinal sectional view of the pig of the apparatus of figure 1.

Detailed Description of the Invention

Please replace the paragraph beginning at page 4, line 27, with "Referring now to figure 2a," with the following amended paragraph:

Referring now to figure 2a, in which the apparatus 10 is shown diagrammatically, the pipe 24 communicates via a disentrainment pot 28 with a three-way valve 30, while the pipe 26 communicates with a three-way valve 32. The valve 30 enables the pipe 24 to communicate either with a pressure control line 34 or with an adjustable outlet restrictor 36; while the valve 32 enables the pipe 16 to communicate either with the pressure control line 34 or with a sample station 38. The pressure control line 34 communicates with a jet pump 40 whose inlet is connected to a source of compressed air 42 and whose outlet is controlled by a valve 44. Hence if the valve 44 is open, compressed air flows through the jet pump 40, so the pressure in the control line 34 is reduced, while if the valve 44 is closed the compressed air flows into the pressure control line 34. The tube 16 contains a cylindrical pig 46 (shown to a larger scale in figure 3) of dense polyurethane plastic foam with PTFE end plates 47 which seal to the wall of the tube 16.